ABSTRACT OF THE DISCLOSURE

A cutting device (1) for cutting bone tissue (3), which is particularly intended for correcting malpositions, and which enables a segment of the bone tissue (3) to be cut along a predetermined cut surface (5). The cutting device (1) produces a high pressure fluid jet (2) which is guided by a control program stored in a control unit (4) to produce a cut surface (5) having a desired configuration, for example, a circular arc shape. The resulting bone parts (6, 7), created in this manner, can be fixed in a corrective position (8) with little effort and without significant loss of material. A collector (9), which is equipped with a supply line (14) for supplying a rinsing liquid and with a suction line (13), is provided for collecting the fluid from the fluid jet (2). Collector (9) simultaneously serves to reduce the energy remaining in the high-pressure fluid jet (2). A cut surface (5) having a freely selectable shape can be produced by the cutting device (1) and can be obtained without any difficulty by using automated handling systems. The cutting device of the invention enables a significant broadening of the field of use and of the design freedom for an orthopedic surgeon together with a use that preserves bone tissue.